MSEA
WMU
2023

MSEA

FIELD STUDY

Final report

Denmark

August 21 – 23, 2023

Faculty, Hosts' Representatives, and Students

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Representative

RelyOn Nutec
Representative

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VIKING Senior Vice President

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JUAN CARLOS ELIAS VASSALLO
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ANTHONY CUEVAS
Philippines

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CHIKYOUNG LEE
Republic of Korea

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Republic of Korea

HAI VUONG
Vietnam

Preface

As an integral and essential part of the *Master of Science in Maritime Affairs* programme, the field studies are profound opportunities for WMU Students to strengthen their knowledges, which are obtained from the Professors and Lecturers, their lectures, and in-class activities, *inter alios* and *inter alia*. Taking this into consideration, the field studies of the Maritime Safety and Environmental Administration (MSEA) Specialization were organized during several periods in February–August, 2023. Ultimately, there have been 4+1 field studies. The MSEA Faculty and Students have visited many host institutions and cultural sites in *Sweden*, *Germany*, *India / Republic of Korea*, *Japan*, and *Denmark*.

Within the programme of this very field study, the MSEA Faculty and Students have arrived in Esbjerg, Denmark to visit two host institutions and two cultural sites; namely, RelyOn Nutec, VIKING Life-Saving Equipment A/S, the Esbjerg Performing Arts Centre (*Musikhuset Esbjerg*), and the Monument to "Humans at Sea" (*Mennesket ved Havet*). This report narrates the events in either a chronological order, a situational order, or a contextual order in combination with comments and suggestions from the MSEA Faculty and Students' perspectives.

I hope you have an excellent time recalling the field study together with our MSEA Faculty and Students.

Hai Vuong

MSEA Representative

Acknowledgements

We, the Students of the MSEA Specialization, first of all, would like to address our highest appreciation to the World Maritime University, the MSEA Faculty, LCDR Bryan Watts; to the host institutions and the cultural sites in Esbjerg, Denmark; namely, RelyOn Nutec, VIKING Life-Saving Equipment A/S, the Esbjerg Performing Arts Centre (*Musikhuset Esbjerg*), and the Monument to "Humans at Sea" (*Mennesket ved Havet*), their managers, staffs, and trainers; and to, *inter alios*, the Chef de cuisine and the restaurant attendants; and especially to Denmark and Esbjerg, the country, the seaport city and the people, the cultures and the cuisines, for the extraordinary, one-of-a-kind, and unforgettable field study and field trip..

MSEA Students
WMU Class of 2023

21 August 2023: 1400 LT

Departure, Underway, and Arrival

Precisely at 1400 LT, the MSEA Faculty and Students departed from the World Maritime University (WMU) Headquarters in the Swedish coastal city of Malmö. There is a magnificent milestone in the voyage to the west of the Delegation, which is the Öresund Bridge – Øresundsbron (Swedish: *Öresundsbron*, Danish: *Øresundsbroen*), a complex of railway-and-motorway bridge and tunnel connecting Sweden and Denmark. After certain hours of the road trip, the MSEA Faculty and Students arrived in Esbjerg, Denmark. All members of the Delegation spent their afternoon and evening walking around the downtown area of the seaport city; and ultimately, arrived at the city food court. There are many options of typical and traditional dishes for their supper; namely, the local Danish cuisine's, the Mediterranean Greek cuisine's, and the Moroccan cuisine's, *inter alia*. It was underscored by the Reporter that the MSEA Faculty and Students were fully recharged and energized for the next days of the field study.

22 August 2023: 0900 LT

RelyOn Nutec: Safety Briefing

The morning session began with a brief introduction provided by the Representative of RelyOn Nutec. According to the demonstration, RelyOn Nutec was established in 1968; and the Company presents in 22 countries globally with over 30 training locations. Besides the solution of training, the Company also provides services in competence management, e-learning, consultancy, and simulation, which supports, involves, and engages in saving lives and protecting the marine environment. **YARA H. A. TEMBE** recalls her notes that this Company assists VIKING Life-Saving Equipment A/S in ensuring the quality standard of their products and services. By the end of the briefing, the Representative had provided the MSEA Faculty and Students with safety instructions relating to the next demonstration and safety training.

22 August 2023: 1000 LT

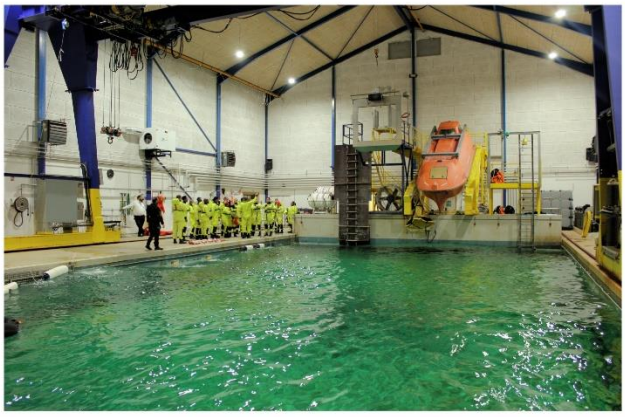
RelyOn Nutec: HydroPen™ System

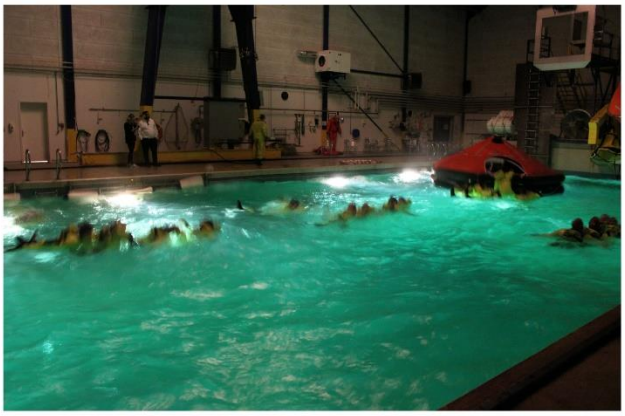
Afterwards, the MSEA Faculty and Students were introduced with the features and operations of the HydroPen™ System, which is a faster, safer, and more efficient solution to directly extinguish fire inside shipping containers. According to the descriptions and in-action demonstrations from the Representative, the system primarily consists of the HydroPen™ drilling unit, the associated fire hose, and the telescopic lift. The system's performance of fire-fighting function commences with mounting the device to the door of the closed container; then with water pressure for drilling penetration; and followed by the connection with sources of either the same water (as for drilling), foam, or carbon dioxide (CO_2). The HydroPen™ System can directly extinguish fire inside containers at three levels; namely, at heights (stacked containers), on deck level, or below deck level on-board of vessels.

22 August 2023: 1100 LT

RelyOn Nutec: Safety Training

Following the previous demonstration, the MSEA Faculty and Students engaged in the LSA training at the indoor safety training facility, which is located within the premise of RelyOn Nutec. **YARA H. A. TEMBE** especially emphasizes our impressions and appreciations from the detailed toolbox meeting before the exercises, the performances, and the efforts of the Trainers during the course of this session. Our Colleagues were introduced to the equipment, the appropriate method of immersion suits donning, and the techniques of swimming and movements in the water for entry into the inflated life-raft. There were three tasks for the trainees to accomplished; namely, abandonment from the vessel in distress by jumping into the water from the embarkation platform, mutual support in the water after the abandonment, and evacuation by a simulated helicopter. Creatively, **JUAN C. E. VASSALLO** invented for the first time the new technique of assisting his Colleagues to enter the water from inside the life-raft. Ultimately, at the end of the morning training session, **ORLY WONG** on behalf of the MSEA Delegation delivered the appreciation to the Trainers for the remarkable experiences.





22 August 2023: 1400 LT

VIKING: Presentations

In the afternoon, the Faculty and Students arrived at the VIKING Life-Saving Equipment A/S Headquarters, where an introduction of their operations and their life-saving equipment was delivered by the Company's Representatives. The narrative is continued by **LYN ALQUIZAR**: VIKING life-rafts are vital safety equipment in maritime and offshore industries, serving as lifesavers during sea emergencies. Their key attributes include large capacity, robust engineering for harsh marine conditions, high visibility for swift rescue, comprehensive provisioning with survival equipment, stability, and compliance with safety regulations. VIKING's reputation for reliability and the peace of mind they offer to those on board further underscores the own importance. Additionally, VIKING life-saving equipment meet legal and insurance requirements, and serve as crucial coordination points during rescue operations. VIKING life-rafts are indispensable safeguards that enhance safety of life at sea, ensure regulatory compliance, and provide reassurance at sea. They are a fundamental component of maritime safety, requiring regular maintenance and inspection to remain ready for emergencies.

22 August 2023: 1500 LT

VIKING: PPE Fashion Show and Factory Technical Tour 1

After the presentations, a PPE Fashion show was performed by the Vikings featuring their wide range of designs and styles. Along the catwalk, the Vikings appeared in their featured personal protective equipment. With different designs and materials, these PPE include chemical protection suits, immersion suits, anti-exposure and work suits, lifejackets, and fireman outfits. It is important to emphasize, according to the Vikings, their PPE comply with the SOLAS, USCG, and CE regulations, standards, and approvals. In fact, the quality of their designs and materials provide the end products with "excellent thermal protection, flame retardancy and ergonomics". The PPE Fashion show lasted and concluded with appreciated and admired applauses from the MSEA Faculty and Students. Afterwards, a technical visit to the VIKING factories was conducted. Inside the facility, the MSEA Delegation experienced a special opportunity to experience and to listen to the introduction about technical characteristics of an inflated 203-person MES (marine evacuation system).

22 August 2023: 1800 LT

VIKING: Welcome Reception

In the evening, the Faculty and Students were warmly and ceremoniously welcomed by the VIKING Representatives at the Esbjerg Performing Arts Centre (*Musikhuset Esbjerg*). At the reception hall of the premise, the Company's Representatives and the MSEA Delegation exchanged their impressions and ideas from the morning sessions. Their discussions focused on the VIKING areas of expertise, the HydroPen™ System, the PPE, and the MES. Afterwards, the ladies and gentlemen enjoyed their dinner with good talks, discussions, and idea exchanges within the warm and joyful atmosphere of the restaurant viewing the Harbour of Esbjerg. Coming to the conclusion of the evening reception, as a flagship female Colleague and on behalf of our MSEA Faculty and Students, **ARTEMISA C. G. N. MOTA** opened the clockwise contour of appreciations and admirations by reiterating the VIKING's reputation in life-saving equipment and other safety-related services. Bearing the torch from his flagship female Colleague, **HAI VUONG** appreciated the VIKING's contribution in safety training by recalling the cadet training periods at the maritime academy studying with the VIKING inflatable life-rafts and PPE; whereas, other Colleagues delivered special thanks to the Company and the Representatives for their warm courtesy.

23 August 2023: 0900 LT

VIKING: Factory Technical Tour 2

In the next day morning session, the VIKING Representatives' detail introduction to the MSEA Faculty and Students showcased their global service management. **ANTHONY CUEVAS** continues with the narrative: This covers over 280 certified servicing stations located at all major ports and offshore hubs globally, which ensures the best and most efficient servicing experience. The equipment services, which cover life-raft, lifeboat, PPE, fire-fighting equipment, and MES, are being conducted by their trained and certified technician globally. The VIKING Safety Academy is also given emphasis focusing on training and competence development in the maritime and offshore industries. Blended learning is also one of the approaches of the academy, which combines online education, interaction with practical training. Following the presentation about their global present, the more detailed Factory Technical tour was carried out, in which the processes from activating to inflating a 153-person MES and an 8-person life-raft were demonstrated to the MSEA Faculty and Students. Some of our Colleagues were extremely impressed by the inflation process of the MES due to their first observations, besides the training at the maritime academies, either via multimedia learning or inflated life-saving appliances; whereas, other Colleagues expressed their concerns of experiencing this sole experience once in a life time in there, as the only occasion. In the end of the visit, **KHALED J. H. AQWUYIDIR**, **JAYSHAN HEERAMUN**, and **HAI VUONG**, on behalf of the Class, expressed their sincere appreciations to the VIKING Company, the Representatives and the Staff, for their warm courtesy and the fruitful field study.

23 August 2023: 1400 LT

Esbjerg: The Monument to "Humans at Sea"

After exchanging farewell words with the VIKING Company and Staff, the MSEA Faculty and Students proceeded *en route* back to Malmö, Sweden from Esbjerg, Denmark. On the way, the Delegation experienced the most interesting and extraordinary landmark of the seaport city – the Monument to "Humans at Sea" (*Mennesket ved Havet*), which is located on the west coast of Esbjerg. It is widely published that the Monument, which is a sculpture of four 9-meter stunning white human figures, is a dedicated artwork celebrating the centennial of the Municipality of Esbjerg. Also, certain official sites emphasize that the Monument can be observed by vessels sailing inbound-ward and outbound-ward the Esbjerg Harbour. Upon accomplishment of this very field study, **YARA H. A. TEMBE**, **HAI VUONG**, and several of their Colleagues, on behalf of the MSEA Students, addressed their sincere appreciations to the MSEA Faculty and LCDR **BRYAN WATTS**, and also, to the Chauffeur for the practical, safe and sound field trip. In response, LCDR **BRYAN WATTS** appreciated the kind and sincere words from the MSEA Students, and delivered some words of encouragements, especially reiterating the experiences and inspirations that these field studies have built and strengthened within each of our MSEA Students.

MSEA Correspondent: **HAI VUONG & Associates**

Esbjerg, signing off.

"Those were excellent experiences, time in Esbjerg."